**TDK-Lambda**

**CC-E Series**

**1.5-25W, Ultra Compact Single and Dual DC-DC Converters**

**Features**
- Compact Footprint / Low Profile
- Through Hole or SMT Versions
- 5V, 12V, 24V & 48V Inputs
- 3.3 to 30V Single, ±12 to 15V Dual Outputs
- Output Voltage Adjustment
- Input - Output Isolation
- RoHS Compliant
- 5 Year Warranty
- Self contained
- Multiple Input Voltage configurations
- Open frame (no potting)

**Key Market Segments & Applications**

![Industrial](image)
![Test](image)
![COMM](image)
![Broadcast](image)

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**Specifications**

| Model | Nominal Output Voltage | DC Input V | Efficiency % | Output Voltage Tolerance | Output Adjustment (via trim pin) V | Line Regulation mV | Load Regulation mV | Temperature Coefficient % | Preload | Output Ripple (typ./max.BW 50MHz) mV | Overcurrent Protection | Overvoltage Protection | Remote On/ Off | Operating Temp. - Convection °C | Operating Temp. - Forced Air °C | Storage Temperature °C | Humidity (non Condensing) | Isolation Voltage | Isolation Resistance | Shock m/s² | Vibration (non Operating) | Safety Agency Approvals | Weight g | Size (L x W x H) (DIP Through Hole and SMD package) in | Warranty yrs |
|-------|------------------------|------------|--------------|--------------------------|-----------------------------------|-------------------|-------------------|--------------------------|---------|-----------------------------|------------------------|------------------------|-----------------|-------------------------|-------------------------|--------|-----------------------------|----------------|
|       | 3.3V                   | 5V: 4.5-9.0V, 12V: 9-18V, 24V: 18-36V, 48V: 36-76V | 71 to 90% model dependant | 1.5-10W: ±3%, 15-25W: ±5% | 3.15-3.6V (5) | 20 (40 CC15; 30 CC25) | 40 | 100 | ≤± 0.02%/°C | - | 40/120 | - | - | - | -40 to 85°C, derates linearly to 40% load from 50°C to 85°C | -40°C to 85°C with 1m/s air full load | -40°C to 85°C | - | 95% RH max. (maximum wet-bulb temperature: 38°C) | - | - | - | 10 to 55Hz (sweep for 15min) 1.52mm constant, 3 directions X, Y, Z each 2 hours | - | CC1R5: 3.2, CC3: 4.5, CC6: 5.8, CC10:10.0, CC15: 12.5, CC25: 20.0 | CC1R5: 0.650 x 0.654 x 0.335; CC3: 0.900 x 0.654 x 0.335; CC6: 0.900 x 0.831 x 0.335; CC10: 1.400 x 0.890 x 0.335; CC15: 1.500 x 1.264 x 0.295; CC25: 1.701 x 1.768 x 0.295; CC3 (SIP): 1.09 x 0.362 x 0.705 | 5 years |

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1. For 24V/30V output - connect across +Vout & -Vout and leave "common out" pin not connected
2. Based upon equal load current from both outputs
3. For 15V output connect trim to -Vout
4. See Installation Manual for full specs, test methods of parameters & application notes
5. Not available on CC15 and CC25 models

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CC-E Series

Outline Drawing

For Additional Information, please visit us.tdk-lambda.com/lp/products/cc-series.htm